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APPLICATION NO.	CATION NO. FILING DATE FIRST NAME		ATTORNEY DOCKET NO. CONFIRMATIO		
10/718,900	11/21/2003	Krishnan Chari	86421CPK 1667		
7:	590 07/13/2005	EXAMINER			
Paul A. Leipold			WANG, GEORGE Y		
Patent Legal St	aff				
Eastman Kodak	Company	ART UNIT	PAPER NUMBER		
343 State Street			2871		
Rochester, NY 14650-2201			DATE MAILED: 07/13/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	n No	Applicant(s)				
Office Action Summary		10/718,90	0	CHARI ET AL.				
		Examiner		Art Unit				
	The MAILING DATE of this communication	George Y.	•	2871				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
THE - Exte after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR RIMALING DATE OF THIS COMMUNICATIOnsions of time may be available under the provisions of 37 CF SIX (6) MONTHS from the mailling date of this communication of period for reply specified above is less than thirty (30) days, poperiod for reply is specified above, the maximum statutory price to reply within the set or extended period for reply will, by steply received by the Office later than three months after the ried patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no even n. a reply within the statueriod will apply and will statute, cause the appl	nt, however, may a reply be tim tory minimum of thirty (30) days I expire SIX (6) MONTHS from ication to become ABANDONEI	nely filed s will be considered timely. the mailing date of this comm D (35 U.S.C. § 133).	unication.			
Status								
1)⊠	Responsive to communication(s) filed on 2	28 April 2005.						
· —	☐ This action is FINAL . 2b)⊠ This action is non-final.							
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	on of Claims							
5)□ 6)⊠ 7)□	Claim(s) <u>1-20</u> is/are pending in the applica 4a) Of the above claim(s) <u>10-20</u> is/are with Claim(s) is/are allowed. Claim(s) <u>1-9</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction as	drawn from con						
Applicati	on Papers							
10)⊠	The specification is objected to by the Exar The drawing(s) filed on <u>21 November 2003</u> Applicant may not request that any objection to Replacement drawing sheet(s) including the co The oath or declaration is objected to by the	is/are: a) ac the drawing(s) b prrection is require	e held in abeyance. See ed if the drawing(s) is obj	37 CFR 1.85(a). ected to. See 37 CFR 1	1.121(d).			
Priority u	ınder 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.								
Attachmen	t(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date								
3) 🔯 Inform	nation Disclosure Statement(s) (PTO-1449 or PTO/SE r No(s)/Mail Date <u>4/4/05; 11/21/03</u> .	3/08)	5) Notice of Informal Pa	-	2)			

Application/Control Number: 10/718,900 Page 2

Art Unit: 2871

DETAILED ACTION

Election/Restrictions

1. Applicant's election of 1-9 in the reply filed on April 28, 2005 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

Drawings

2. New corrected drawings in compliance with 37 CFR 1.121(d) are required in this application because the current drawings are informal (particularly the handwritten numbering). Applicant is advised to employ the services of a competent patent draftsperson outside the Office, as the U.S. Patent and Trademark Office no longer prepares new drawings. The corrected drawings are required in reply to the Office action to avoid abandonment of the application. The requirement for corrected drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

⁽b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Application/Control Number: 10/718,900

Art Unit: 2871

4. Claims 1-9 are rejected under 35 U.S.C. 102(b) as being anticipated by. Stephenson (U.S. Patent No. 6,359,673).

Page 3

- 5. As to claim 1, Stephenson discloses a display sheet (fig. 5, ref. 10) comprising an optional substrate (30) for carrying layers of material, an imaging layer (11) and comprising a substantial monolayer of isolated domains of liquid-crystal material dispersed in a continuous matrix, said liquid-crystal material (12, 14) having a first reflecting state within the visible light spectrum defining an operating spectrum and a second weakly scattering state in said operating spectrum, wherein said states are capable of being interchanged by an electric field, which states are capable of being maintained as a stable state in an absence of an electric field (col. 4, lines 1-9), wherein said domains of liquid-crystal material comprises a mixture of at least two populations, a first population comprising a first liquid-crystal material having a first λ_{max} and a second liquid-crystal material having a second λ_{max} wherein there is a difference between said first and said second λ_{max} of at least 50 nm (referring to yellow and blue populations, col. 6, lines 14-23), first transparent conductors (32) disposed on one side of said imaging layer, second conductors(40) disposed on an opposite side of said imaging layer.
- 6. Regarding claim 2, Stephenson discloses a display sheet as recited above where the reflected light from said display sheet when said imaging layer is in the first

Application/Control Number: 10/718,900

Art Unit: 2871

reflecting state has CIE tristimulus values X, Y and Z that are within 20 percent of each other (fig. 5, ref. 52; col. 5, lines 46-64).

Page 4

- As per claim 3, Stephenson discloses a display sheet as recited above where the first liquid-crystal material has a peak reflected wavelength in the range of 561 to 720 nanometers (red, fig. 5, ref. 34) and said second liquid-crystal material has a peak reflected wavelength in the range of 450 to 560 nanometers (either green or blue, ref. 36, 38).
- 8. Regarding claim 4, Stephenson discloses a display sheet as recited above where said first and said second liquid-crystal material each comprises a dopant having a first and a second concentration (col. 6, lines 20-23), respectively, wherein said first and said second concentration differs such that the pitch of said second liquid-crystal material is smaller than the pitch of said first liquid-crystal material (col. 4, lines 1-9).
- 9. As to claim 5, Stephenson discloses a display sheet as recited above where said first liquid-crystal material reflects red having λ_{max} in a range 630 to 720 nm (red, fig. 5, ref. 34).
- 10. <u>As per claim 6</u>, Stephenson discloses a display sheet as recited above where said first liquid-crystal material reflects red and said second liquid-crystal material reflects green, blue, or cyan (fig. 5, ref. 34, 36, 38; col. 5, lines 46-64).

Application/Control Number: 10/718,900 Page 5

Art Unit: 2871

11. Regarding claim 7, Stephenson discloses a display sheet as recited above where said first liquid-crystal material is red and said second liquid-crystal material is green (fig. 5, ref. 34, 36, 38; col. 5, lines 46-64).

- 12. As per claim 8, Stephenson discloses a display sheet as recited above where said first (32) and said second conductors (40) are patterned to produce an addressable matrix (col. 5, lines 39-45).
- 13. As to claim 9, Stephenson discloses a display sheet as recited above where said domains comprise chiral-nematic liquid-crystal material and said continuous matrix comprises gelatin (col. 4, lines 27-43).

Conclusion

14. Any inquiry concerning this communication or earlier communications from the examiner should be directed to George Y. Wang whose telephone number is 571-272-2304. The examiner can normally be reached on M-F, 8 am - 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert H. Kim can be reached on 571-272-2293. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 10/718,900 Page 6

Art Unit: 2871

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

gw July 11, 2005

DUNG T. NGUYEN
PRIMARY EXAMINER